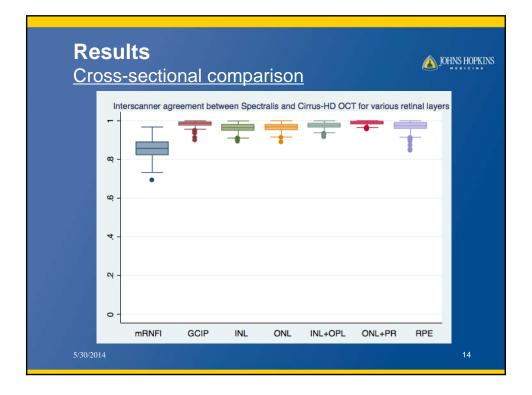


Category	Number of subjects	Age (SD)	Sex ratio (Female : male)	Disease duratior (SD)
Healthy Controls	22	33.5 (9.1)	13:9	N.A
RRMS	52	41.8 (11.6)	37:15	10.3 (7.3)
SPMS	9	59.5 (6.1)	8:1	27.6 (10.6)
PPMS	7	56.2 (6.4)	4:3	19.7 (12.9)

Results Cross-sectional agreement				
Layer	Average thickness* (SD)	Mean Difference (95% CI)	Upper LOA (95% CI)	Lower LOA (95% CI)
mRNFL	32.35 (4.38)	4.71 (4.45 to 4.97)	8.22 (7.77, 8.68)	1.20
GCIP	65.59 (8.13)	0.26 (0.04 to 0.48)	3.17 (2.79, 3.55)	-2.65 (-3.03, -2.27)
INL	35.59 (1.81)	-1.31 (-1.43 to -1.12)	0.20 (0.01, 0.40)	-2.83 (-3.03, -2.63)
INL+OPL	60.59 (3.31)	-1.09 (-1.33 to -0.86)	2.02 (1.62, 2.43)	-4.21 (-4.62, -3.81)
ONL	63.10 (5.80)	-2.16 (-2.35, -1.97)	0.39 (0.05, 0.72)	-4.71 (-5.05, -4.38)
ONL+PR	108.56 (7.14)	0.20 (-0.05 to 0.46)	3.61 (3.17, 4.05)	-3.20 (-3.65, -2.76)
RPE	33.32 (1.92)	0.14 (-0.06 to 0.35)	2.92 (2.56, 3.28)	-2.63 (-2.99, -2.27)



Results Comparison of MS and healthy controls

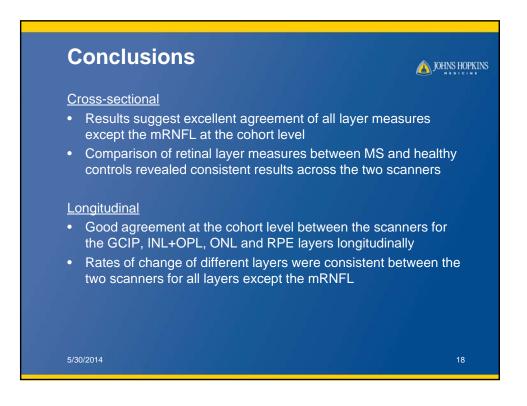
JOHNS HOPKINS

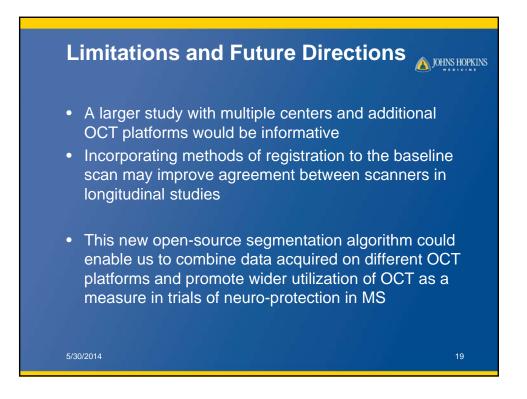
 The results of the comparison between MS and HCs were consistent, in terms of magnitude of difference as well as significance, across both platforms for all retinal neuronal layers

	Layer	Difference in mean thickness (Spectralis)	p value [*]	Difference in mean thickness (Cirrus)	p value*
	mRNFL	-3.54	0.001	-3.62	<0.001
	GCIP	-9.47	<0.001	-9.04	<0.001
	INL	-0.57	0.241	-0.31	0.498
	INL+OPL	-0.87	0.321	-0.66	0.459
	ONL	-2.58	0.087	-2.02	0.154
	ONL+PR	-2.71	0.14	-2.44	0.172
	RPE	-1.39	0.001	-0.92	0.131
5/3	30/2014				15

Results Longitudinal agreement					JOHNS H	
Layer	Mean change Spectralis (SD)	Mean change Cirrus (SD)	Mean Difference (95% CI)	Upper LOA (95% CI)	Lower LOA (95% CI)	
mRNFL	-0.29	-0.09	-0.195	3.52	-3.92	
	(2.11)	(1.42)	(-0.47 to 0.08)	(3.04, 4.00)	(-4.40, -3.43)	
GCIP	-0.54	-0.60	0.060	2.45	-2.33	
	(2.27)	(2.16)	(-0.12 to 0.24)	(2.15, 2.76)	(-2.64, -2.02)	
INL	-0.046	-0.004	-0.042	1.56	-1.65	
	(0.69)	(0.71)	(-0.16 to 0.07)	(1.36, 1.77)	(-1.86, -1.44)	
INL+OPL	-0.041	-0.056	0.015	3.54	-3.51	
	(1.59)	(1.17)	(-0.25 to 0.28)	(3.09, 4.00)	(-3.97, -3.06)	
ONL	-0.073 (1.60)	-0.089 (1.33)	0.016 (-0.17 to 0.20)	2.55 (2.22, 2,87)	-2.52 (-2.85, -2.19)	
ONL+PR	0.04	-0.17	0.213	3.42	-3.00	
	(2.20)	(1.91)	(-0.03 to 0.45)	(3.01, 3.84)	(-3.42, -2.59)	
RPE	-0.023	-0.032	0.009	2.21	-2.20	
	(1.01)	(1.05)	(-0.15 to 0.17)	(1.93, 2.50)	(-2.49, -1.91)	
5/30/2014					1	

Annual longitudinal agreement					
Layer	Rate of change of layer thickness - Spectralis Mean (95% Cl)	Rate of change of layer thickness - Cirrus Mean (95% Cl)			
mRNFL	-0.28 (-0.56, -0.001)	-0.09 (-0.28, 0.09)			
GCIP	-0.59 (-0.89, -0.27)	-0.66 (-0.96, -0.36)			
INL	-0.07 (-0.16, 0.01)	-0.06 (-0.16, 0.03)			
INL+OPL	-0.08 (-0.27, 0.11)	-0.11 (-0.26, 0.04)			
ONL	-0.06 (-0.25, 0.13)	-0.11 (-0.27, 0.05)			
ONL+PR	0.05 (-0.21, 0.31)	-0.16 (-0.39, 0.07)			
RPE	0.004 (-0.12, 0.12)	-0.002 (-0.13, 0.12)			







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